Wednesday, 6/7/2006 11:12:44 AM

User:

inda Lacelle

**Process Sheet** 

**Drawing Name** 

Part Number

**Drawing Number** 

**Project Number** 

Customer 4/2 : CU-DAR001 Dart Helicopters Services

Job Number : 27446 Estimate Number 12357

P.O. Number

:NIA

: 6/7/2006 This Issue Prsht Rev.

First Issue : 27340D **Previous Run** 

Written By

Checked & Approved By

Comment

: Est Rev: A 05.12.09

New Issue KJ/RF Est. Rev B New dwg rev. ecn781

S.O. No. : NA

06.04.18 EC

: LARGE FAB ASSY

**Drawing Revision** Material

:NA **Due Date** 

: 6/16/2006

: D41269404

: D412-694

: N/A

: C1

: DOOR ASSEMBLY

Qtv:

PO 2008860

1 Um:

See W/0 24660 / 01

Each

**Additional Product** 

Seq. #:

Job Number:

Machine Or Operation:

Description:

1.0 DC

DOCUMENT CONTROL

Comment: DOCUM

Issue red decal labels for D412-694-04.

**CHG005** 

COMPOSITE ASSEMBLY



Comment: COMPOSITE ASSEMBLY

2 D412-694-04 Drill Process

1- Drill of holes Ø(#30) using drill Jig D3144-T10 for the doublers. Drill (2) holes in two places Ø3/16" (0:188) it the slot opening. Router slot using D3144-T11/-T12 as per Dwg D412-694 page 3.Note: Ensure aslot is aligned with mark for reference.

2- Drill Pilot holes Ø(#30) using drill Jig D3120-4T1 for bottom cover. Use unibit to open holes to Ø37/64" (0.578) for inserts as per Dwg D412-694 page 3.

3- Drill Pilot holes Ø(#30) using drill Jig DT8703-10 for hinges, top cover and D3113-1 spring. Use unibit to open holes to Ø37/64" (0.578) for inserts as per Dwg D412-694 page 3 & 4 (view MM-MM).

4- Drill Pilot holes Ø(#1/8") for clevis base and stop at top of the door using drill Jig DT8703-11. Open (1) hole Ø(#10) 0.193 for clevis base and (2) holes Ø(#19) 0.166 for stop as per Dwg D412-694 page 5 (section FF-FF.)

5- Drill Pilot hole Ø(#1/8") for clevis base at bottom of the door using drill Jig DT8703-12. Open hole Ø(#10 0.193 for clevis base as per Dwg D412-694 page 5 (section FF-FF).

6- Ensure 17 1/16" from opposite edge of the door for Ø5/8" hole is in proper location top and bottom.

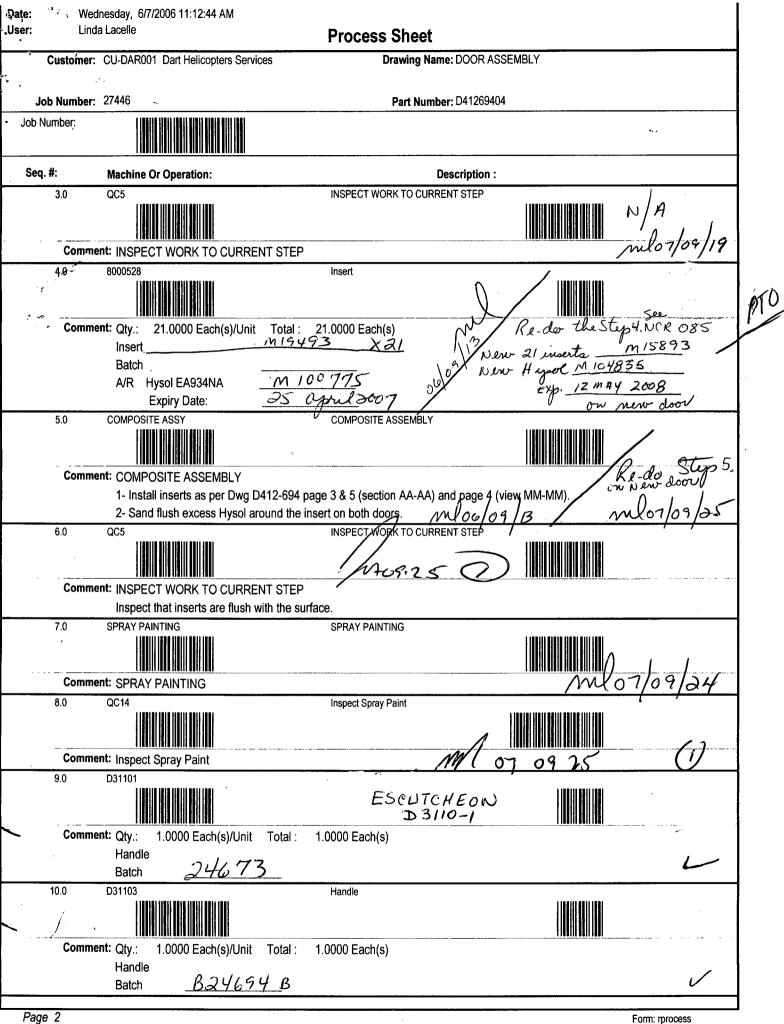
7- Drill through only (1) hole Ø(5/8") and pilot drill (2) holes Ø(#30) for insert top and bottom. Open (2) holes to 37/64" (0.578) for clevis inserts as per Dwg D412-694 page 5 (section AA-AA).

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Date: Wednesday, 6/7/2006 11:12:44 AM User: Linda Lacelle **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services **Drawing Name: DOOR ASSEMBLY** Job Number: 27446 Part Number: D41269404 Job Number: Seq. #: **Machine Or Operation:** Description: D3111041 11.0 Plate Assembly Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Plate Assembly M1053617 Batch 12.0 D31121 Guide Comment: Qty.: Total: 2.0000 Each(s)/Unit 2.0000 Each(s) Guide B27667 Batch 13.0 D31131 Spring Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Spring B17437 Batch 14.0 D31141 Pivot Comment: Qty.: Total: 1.0000 Each(s)/Unit 1.0000 Each(s) **Pivot** B18630 **Batch** 15.0 D31165 Seal 110-031-4 Comment: Qty.: 5.6700 f(s)/Unit Total: 5.6700 f(s) Seal 110-031-4 Batch 16.0 D311611 SEAL Comment: Qty.: Total: 1.5000 f(s) **SEAL** \$ B24675 Batch 17.0 D3119042 Cover Assembly Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Cover Assembly Batch

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Date: Wednesday, 6/7/2006 11:12:44 AM User: Linda Lacelle **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services Drawing Name: DOOR ASSEMBLY Job Number: 27446 Part Number: D41269404 Job Number: Seq. #: **Description: Machine Or Operation:** D31202 18.0 Cover, Flat Pattern 1.0000 Each(s)/Unit Total: Comment: Qty.: 1.0000 Each(s) Cover, Flat Pattern Batch 19.0 D31204 Cover Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Cover Batch 20.0 D31251 Lever Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Lever M10536-17 Batch 21.0 D31253 Lever Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Lever M10536-17 Batch 22.0 D31255 Lever Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Lever M10536-17 Batch 23.0 D31257 Lever Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Lever M10536-17 Batch 24.0 D31291 Lever Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) Lever M10536-17 Batch

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Date: Wednesday, 6/7/2006 11:12:44 AM User: Linda Lacelle **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services **Drawing Name: DOOR ASSEMBLY** Job Number: 27446 Part Number: D41269404 Job Number: Seq. #: **Machine Or Operation:** Description: 25.0 D31301 Clevis Base Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) Clevis Base M10536-17 Batch D31311 26.0 Stop Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Stop M 10536-17 Batch 27.0 D31341 Rod Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Rod B24681 Batch 28.0 D31344 Rod Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Rod B18376 **Batch** 29.0 D314008 Door Kit Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Door Kit B27446 Batch 30.0 D31431 Clevis Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Clevis M10536-17 Batch 31.0 D31433 Comment: Qty.: 3.0000 Each(s)/Unit Total: 3.0000 Each(s) Clevis m 10536-17

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Wednesday, 6/7/2006 11:12:44 AM Date: Ùser: Linda Lacelle **Process Sheet Drawing Name: DOOR ASSEMBLY** Customer: CU-DAR001 Dart Helicopters Services Job Number: 27446 **Part Number: D41269404** Job Number: Seq. #: **Machine Or Operation:** Description: 32.0 D3144117 Doubler Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Doubler B22022. Batch 33.0 D3144119 Doubler Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Doubler *b2202*3 Batch 34.0 D3144121 Doubler Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Doubler B22024 Batch 35.0 D31452 Bracket 1.0000 Each(s)/Unit Total: Comment: Qty.: 1.0000 Each(s) **Bracket** B26708 Batch 36.0 D31462 Hinge Bracket Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Hinge Bracket Batch 109/10 Re-Pick Becouse Up grote drug.

D 3/147-1 B30824 X2 37.0 D31471 2.0000 Each(s) Comment: Qty.: 2.0000 Each(s)/Unit Total: Pin Batch 38.0 D31491 Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) Striker Plate M10536-17 Batch

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Date: Wednesday, 6/7/2006 11:12:44 AM User: Linda Lacelle **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services Drawing Name: DOOR ASSEMBLY Job Number: 27446 **Part Number: D41269404** Job Number: Seq. #: **Machine Or Operation: Description:** 39.0 D31501 Guide Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) Guide M10536-17 Batch D31541 40.0 Key Comment: Qty.: .0000 Each(s)/Unit Total: 1.0000 Each(s) Key M10536-17 Batch 41.0 D31571 Spacer Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) Spacer M10536-17 Batch 42.0 D3159041 **Bracket Assembly** Comment: Qty.: 3.0000 Each(s)/Unit Total: 3.0000 Each(s) **Bracket Assembly** B18641 Batch 43.0 D3159044 **Bracket Assembly** Comment: Qty.: Total: 1.0000 Each(s) 1.0000 Each(s)/Unit **Bracket Assembly** B24687 **Batch** 44.0 AN52510R7 Screw Comment: Qty.: Total: 4.0000 Each(s)/Unit 4.0000 Each(s) Screw M 15387 Batch AN960JD6L 45.0 Washer Comment: Qty.: Total: 4.0000 Each(s) 4.0000 Each(s)/Unit Washer M5519 Batch

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Date: Wednesday, 6/7/2006 11:12:45 AM User: Linda Lacelle **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services **Drawing Name: DOOR ASSEMBLY** Job Number: 27446 Part Number: D41269404 Job Number: Seq. #: **Machine Or Operation: Description:** AN960JD8 46.0 Washer Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) M11989 Washer 47.0 AN960JD8L Washer Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) Washer M 6956 Batch 48.0 AN960JD10 Comment: Qty.: 8.0000 Each(s)/Unit Total: 8.0000 Each(s) Washer M 100743 Batch 49.0 AN960JD10L Comment: Qty.: 13.0000 Each(s)/Unit Total: 13.0000 Each(s) Washer M1661Z Batch 50.0 AN960JD10LL Comment: Qty.: 29.0000 Each(s)/Unit Total: 29.0000 Each(s) Washer m11763 Batch ALS463280 51.0 Comment: Qty.: 10.0000 Each(s)/Unit Total: 10.0000 Each(s) Insert m 17841 Batch 52.0 BSP45 Commercial Rivet Comment: Qty.: 34.0000 Each(s)/Unit Total: 34.0000 Each(s) Commercial Rivet 7 1182

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Date: Wednesday, 6/7/2006 11:12:45 AM User: Linda Lacelle **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services Drawing Name: DOOR ASSEMBLY Job Number: 27446 Part Number: D41269404 Job Number: Seq. #: **Description:** Machine Or Operation: 53.0 BSP46 Commercial rivet Comment: Qty.: 12.0000 Each(s)/Unit Total: 12.0000 Each(s) Commercial rivet M189098 Batch 54.0 FW4032 Washer Comment: Qty.: 6.0000 Each(s)/Unit Total: 6.0000 Each(s) Washer M11822 Batch 55.0 FW10032 Washer Comment: Qty.: 16.0000 Each(s)/Unit Total: 16.0000 Each(s) Washer M 19 2 4 9 (14)
Rivets M11822 (2) Batch 56.0 M7885344 Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) Rivets MT5659 Batch 57.0 M7885345 Rivet Comment: Qty.: Total: 1.0000 Each(s)/Unit 1.0000 Each(s) Rivet m 1108 Batch 58.0 MS203921C11 Pin Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) Pin Batch 59.0 MS203922C11 Pin Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) Pin m/4149 Batch

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Date: Wednesday, 6/7/2006 11:12:45 AM User: Linda Lacelle **Process Sheet** Drawing Name: DOOR ASSEMBLY Customer: CU-DAR001 Dart Helicopters Services Job Number: 27446 Part Number: D41269404 Job Number: Seq. #: **Machine Or Operation: Description:** MS203922C15 Pin 60.0 Comment: Qty.: Total: 7.0000 Each(s) 7.0000 Each(s)/Unit Pin m 11796 Batch 61.0 MS21042L3 Nut Comment: Qty.: 7.0000 Each(s)/Unit Total: 7.0000 Each(s) Nut 15539 Batch MS21042L06 62.0 Nut Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) Nut 13166 Batch MS24665151 63.0 Cotter Pin Comment: Qty.: 11.0000 Each(s)/Unit Total: 11.0000 Each(s) Cotter Pin 17566 Batch 64.0 MS24694C4 SCREW Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) **SCREW** m 15924 Batch 65.0 MS24694S53 **SCREW** 2.0000 Each(s) Comment: Qty.: 2.0000 Each(s)/Unit Total: 15798 **SCREW** MS24694S56 SCREW 66.0 Comment: Qty.: 4.0000 Each(s)/Unit Total: 4.0000 Each(s) **SCREW** 14198 **Batch** 

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Date: Wednesday, 6/7/2006 11:12:45 AM User: Linda Lacelle **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services **Drawing Name: DOOR ASSEMBLY** Job Number: 27446 **Part Number: D41269404** Job Number: Seq. #: **Machine Or Operation:** Description: MS24694S60 67.0 Screw Comment: Qty.: 4.0000 Each(s)/Unit Total: 4.0000 Each(s) Screw 11766 Batch 68.0 MS25281R6 Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) Clamp 11759 Batch MS27039106 69.0 Comment: Qty.: 12.0000 Each(s)/Unit Total: 12.0000 Each(s) Screw Batch MS27039108 70.0 Comment: Qty.: 6.0000 Each(s)/Unit Total: 6.0000 Each(s) Screw Batch MS35206231 71.0 Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) Screw M11735 Batch 72.0 MS356503057 Comment: Qty.: 4.0000 Each(s)/Unit Total: 4.0000 Each(s) Nut m11786 Batch 73.0 MS518597 Washer Comment: Qty.: 3.0000 Each(s)/Unit Total: 3.0000 Each(s) Washer M11822 Batch

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Date: Wednesday, 6/7/2006 11:12:45 AM User: Linda Lacelle **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services **Drawing Name: DOOR ASSEMBLY** Job Number: 27446 Part Number: D41269404 Job Number: Seq. #: **Machine Or Operation:** Description: 74.0 NAS116910L Washer Comment: Qty.: 4.0000 Each(s)/Unit Total: 4.0000 Each(s) Washer 11753 Batch NAS38868F 75.0 Screw Comment: Qty... 14.0000 Each(s)/Unit Total: 14.0000 Each(s) Screw M19098 Batch 76.0 NAS391B6P Washer Comment: Qty.: 14.0000 Each(s)/Unit Total: 14.0000 Each(s) Washer Batch 77.0 NAS43DD340 Spacer Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) Spacer Batch 78.0 COMPOSITE ASSY COMPOSITE ASSEMBLY Comment: COMPOSITE ASSEMBLY D412-694-04 Assembly Process 1- Install top/bottom of the door, D3112-1 Guard, D3130-1 Clevis Base and D3131-1 Stop (top only) as per Dwg D412-694 page 5 (section AA-AA & FF-FF). 2- Install D3111-041 Plate Assembly. If needed, install temporary D3110-3 Handle as per Dwg D412-694 page 5 (view W and section BB-BB). Note: Adjust D3111-041 high with washer as required. Check that the D3154-1 key doesn't touch the base of the door. 3- Assemble Rod as per Dwg D412-694 page 5 (view W) 4- Assemble D3147-1 Pin to the lever as per Dwg D412-694 page 5 (section AA-AA & FF-FF). 5- Connect Rods and D3111-041 Plate Assembly as per Dwg D412-694 page 5 (view W).

6- Install D3111-041 and mechanism in place. Use D3110-3 Handle to make lock and mechanism of the rod

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Date: User: Wednesday, 6/7/2006 11:12:45 AM

Linda Lacelle

**Process Sheet** 

Customer: CU-DAR001 Dart Helicopters Services

**Drawing Name: DOOR ASSEMBLY** 

Job Number: 27446

Part Number: D41269404

Job Number:



### Seq. #:

#### **Machine Or Operation:**

#### Description:

work properly. Mark the center NAS1169-10L washer into the door and drill (#10) Ø0.193". C'sink Ø0.385 x 100° from far side of the door. Ensure D3111-041 is level with inside door surface as per Dwg D412-694 page 5 (view W).

- 7- Install (1) D3159-041 bracket assembly to side of the window. Transfer hole from the door to D3159-041 bracket. Drill Ø(#30) C'sink for the rivet (note: use 1" pitch holes) as per Dwg D412-694 page 5 (view W) and (section LL-LL).
- 8- Drill (#19), C'sink Ø0.332 x 100°. Install MS25281-R6 Clamp as per Dwg D412-694 page 5 (view W). Ensure Rod moves freely when installing clamps.
- 9- Install (1) D3159-044 bracket assembly. Transfer (2) holes from the door to the bracket. Install (1) M7885/3-4-5 rivet and install the second rivet with the doubler.

Note: Layout properly as per Dwg D412-694 page 5 (view W). Note: Second hole will be done with doubler and seal.

- 10- Drill (4) (#10) Ø0.193" holes from D3150-1 guide by laying out doublers with temporary seal segment with strike plate. Check location of strike plate by laying out small and large door together. Note: Position strike plate when big door is in locked position.
- 11- Open (#30) pilot hole to Ø"G" (0.261) in the door for ALS4-632-80 insert. Install insert as per Dwg D412-694 page 3.
- 12- Install Doublers and D3159-041 bracket. Cut slot openings from the door to D3116-5-0680 Seal as per Dwg D412-694 page 3 (section JJ-JJ)
- 13- Install D3150-1 Guide top/bottom as per Dwg D412-694 page 5 (view DD & CC). Note: Install D3128-1 shim as required.
- 14- Install Hinge Bracket and D3113-1 Spring as per Dwg D412-694 page 3 & 4 (view MM-MM).
- 15- Install top/bottom Covers. Attach D3116-11-0180 Seal as per Dwg D412-694 page 3

FOR D412-694-011 ONLY

- 16- Drill Pilot holes Ø(#1/8") for D3119-042 cover using drilling Jig D3119-042T1/T2 as per Dwg D412-694 page 3. Trim D3119-042 Cover Assembly and transfer Ø(#30) holes using hole finder tool from the door to the cover. Open holes to Ø5/32" (0.156).
- 17- Install D3119-042 Cover and Assemble Handle as per Dwg D412-694 page 3 & 5 (section BB-BB). Align properly.

Form: rprocess

W/O:			WO	RK ORDER CHANGES					
DATE	STEP	PRO	OCEDURE CHAN	GE	Ву	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector
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Date: Wednesday, 6/7/2006 11:12:45 AM Úser: Linda Lacelle **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services **Drawing Name: DOOR ASSEMBLY** Job Number: 27446 Part Number: D41269404 Job Number: Seq. #: **Machine Or Operation:** Description: INSPECT WORK TO CURRENT STEP 79.0 19.A Comment: INSPECT WORK TO CURRENT STEP Install door on mock up helicopter to insure proper fit and function. PACKAGING 1 PACKAGING RESOURCE #1 80.0 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: 81.0 Comment: DOCUMENT CONTROL Inspection Level 21 Job Completion 79 B: Put Red Rabel inside before the cover. \$3119-042 for VIP TRIM ml07/10/16

W/O:		WORK ORDER CHANGES									
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector				
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NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
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# Bordereau d'expédition Packing list

.2699, 5e Avenue, local 14, C.P. 123, Grand-Mère (Québec) G9T 5K7 Bur. : (819) 533-5788 / Fax. : (819) 533-3494

DK - 0587

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